

**LONGi**

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**BRIGHT 3**

# Non-monotonous PV Modules

HPBC  
2.0

TaiRay



## Model Compatibility

Universal sizing for standard panel types, effortless and worry-free color upgrades.



## Color Aesthetics

Nearly a hundred standard color options, freely customize your selection.

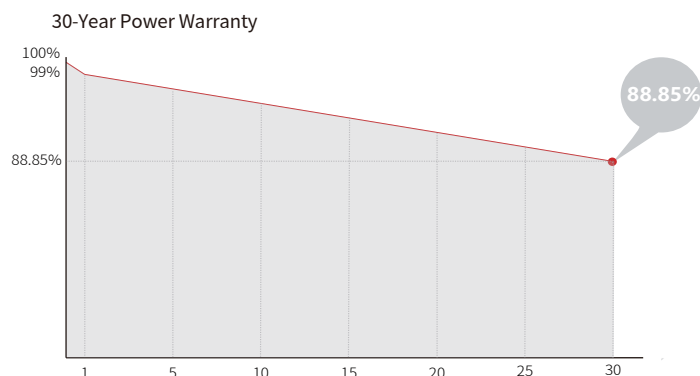


## Value Innovation

Powered by HPBC 2.0 cell technology, delivering high-value architectural returns.



## Additional Value



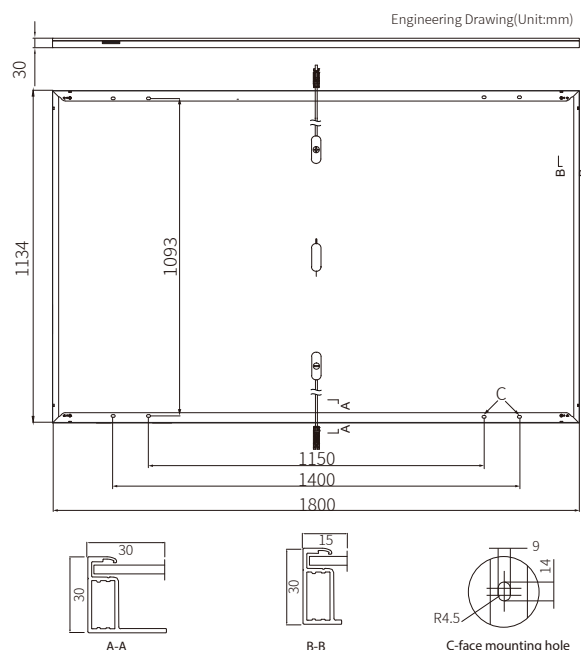
## Mechanical Parameters

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Cell Orientation | 108 (6×18)                                                                                              |
| Junction Box     | Separate junction box, IP68, 3 diodes                                                                   |
| Output Cable     | 4mm <sup>2</sup> , ±1200mm<br>length can be customized                                                  |
| Color            | Galaxy Silver/Eclipse Red/Space Grey/Ocean Blue                                                         |
| Glass            | Double glass<br>2mm colored ultra clear glass +<br>1.6mm Ultra clear embossed black grid glazed glass   |
| Frame            | Powder-coated aluminum alloy frame in<br>the same color as the modules                                  |
| Weight           | 23.5kg                                                                                                  |
| Dimension        | 1800*1134*30mm                                                                                          |
| Packaging        | 36pcs per pallet<br>216pcs 20' GP/864pcs 40' HC<br>936pcs 13.5-meter vehicle/1188pcs 17.5-meter vehicle |

\*Note: The 17.5-meter vehicle is labeled with a 28-ton load capacity. Due to inconsistent specifications, the actual loading quantity upon arrival will be the final determination.

## Temperature Ratings (STC)

|                                      |            |
|--------------------------------------|------------|
| Temperature Coefficient of $I_{sc}$  | +0.050%/°C |
| Temperature Coefficient of $V_{oc}$  | -0.200%/°C |
| Temperature Coefficient of $P_{max}$ | -0.260%/°C |



## Operating Parameters

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Operational Temperature            | -40°C ~ +85°C                                                            |
| Power Output Tolerance             | 0~3%                                                                     |
| Maximum System Voltage             | DC1500V (IEC)                                                            |
| Maximum Series Fuse Rating         | 30A                                                                      |
| Nominal Operating Cell Temperature | 45±2°C                                                                   |
| Protection Class                   | Class II                                                                 |
| Dual-factor                        | $\phi P_{max}$ : 70±10% / $\phi V_{oc}$ : 98±5% / $\phi I_{sc}$ : 75±10% |
| Fire Rating                        | IEC Class C                                                              |

## Mechanical Loading

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Front Side Maximum Static Loading | 5400Pa                               |
| Rear Side Maximum Static Loading  | 2400Pa                               |
| Hailstone Test                    | 25mm Hailstone at the speed of 23m/s |

## Electrical Characteristics

LGi7-54CHVD /315-440M

STC : AM1.5 1000W/m<sup>2</sup> 25°C

100 standard colors available. Shown below are for illustration only.

|                                         | Galaxy Silver        |                      |                      | Eclipse Red          |                      |                      | Space Grey           |                      |                      | Ocean Blue           |                      |                      |
|-----------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Module Type                             | LGi7-54CHVD<br>-315M | LGi7-54CHVD<br>-320M | LGi7-54CHVD<br>-325M | LGi7-54CHVD<br>-365M | LGi7-54CHVD<br>-370M | LGi7-54CHVD<br>-375M | LGi7-54CHVD<br>-415M | LGi7-54CHVD<br>-420M | LGi7-54CHVD<br>-425M | LGi7-54CHVD<br>-430M | LGi7-54CHVD<br>-435M | LGi7-54CHVD<br>-440M |
| Testing Condition                       | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  | STC                  |
| Maximum Power ( $P_{max}$ /W)           | 315                  | 320                  | 325                  | 365                  | 370                  | 375                  | 415                  | 420                  | 425                  | 430                  | 435                  | 440                  |
| Open Circuit Voltage ( $V_{oc}$ /V)     | 39.59                | 39.95                | 40.31                | 39.66                | 40.02                | 40.38                | 39.72                | 40.08                | 40.44                | 39.74                | 40.10                | 40.46                |
| Short Circuit Current ( $I_{sc}$ /A)    | 9.75                 | 9.82                 | 9.88                 | 11.28                | 11.33                | 11.38                | 12.80                | 12.84                | 12.88                | 13.26                | 13.29                | 13.33                |
| Voltage at Maximum Power ( $V_{mp}$ /V) | 34.05                | 34.36                | 34.67                | 34.11                | 34.42                | 34.73                | 34.16                | 34.47                | 34.78                | 34.18                | 34.49                | 34.80                |
| Current at Maximum Power ( $I_{mp}$ /A) | 9.25                 | 9.31                 | 9.38                 | 10.70                | 10.75                | 10.80                | 12.15                | 12.18                | 12.22                | 12.58                | 12.61                | 12.64                |
| Module Efficiency(%)                    | 15.57                | 15.81                | 16.06                | 18.04                | 18.28                | 18.53                | 20.51                | 20.75                | 21.00                | 21.25                | 21.50                | 21.74                |

\*The electrical performance parameters listed in this product catalogue do not refer to a single module, nor do they constitute the commitments outlined in the contract. These electrical performance parameters are only used for comparing different module types. LONGi does not guarantee their complete accuracy. Due to continuous innovation, research and product improvement, LONGi reserves the right to adjust the information in this technical parameter document at any time without prior notice.